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25X1

Monthly Report

PAR 245

29 Jul 66

SUBJECT: BPE High-Magnification Lens Sets

TASK/PROBLEM

1. Design, fabricate, and test prototype optical systems to extend the Briefing Print Enlarger (prototype) PAR 243, upper limit magnification range from 60X to 140X - 160X.

DISCUSSION

2. The design of both lenses has progressed nearly to completion. The 60X to 95X lens is presently an eight-element design and is in the final formula touch-up phase. The 95X to 150X lens is presently a seven-element design similar to the N-102 formula and theoretical evaluation indicates this formula to be satisfactory. Final checking of glasses and edge thicknesses for mounting is in progress.

PLANNED ACTIVITY

3. When both objective lens formulas are satisfactorily completed, start design of the condenser lens systems.

Declass Review by NGA.

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